

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-031129

(43)Date of publication of application : 02.02.1999

(51)Int.Cl. G06F 15/00
G06F 13/00
G06F 17/30
H04L 9/32

(21)Application number : 09-188524

(71)Applicant : FUJITSU LTD

(22)Date of filing : 14.07.1997

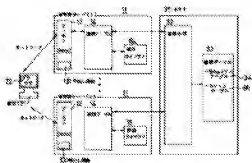
(72)Inventor : NAKAJIMA MITSURU
KADOMA HITOSHI

(54) SYSTEM FOR LINKING PLURAL WWW SERVERS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a system which accesses plural pages and plural different WWW servers based on a unique invisible session ID that is assigned within authentication valid time once a user authenticates a system that links plural WWW servers.

SOLUTION: A host 31 analyzes an HTML document from a browser 22 which is notified from any of plural WWW servers 11, sends an input request for user information to the browser 22 through the WWW server 11 when a session ID is not added, analyzes the sent user information to generate a unique session ID to a request that is allowed to be registered, sends an HTML document in which the session ID is embedded again to the browser 22 through the WWW server 11 and also manages valid time information to allow authentication within the range of the valid time information.



* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] A host is notified of an HTML document received from a browser, And in a network system provided with two or more WWW servers which transmit to a browser an HTML document which embedded session ID which embedded session ID which received a notice from a host at an HTML document, and received a notice in a browser from transmission or a host, The above-mentioned host analyzes an HTML document from a browser notified from above-mentioned one of two or more WWW servers, When session ID is not added, an input request of User Information is transmitted to a browser via the above-mentioned WWW server, Transmit an HTML document which generated session ID of a meaning to a demand to which analyzed transmitted User Information and registration was permitted, and session ID embedded via a WWW server again to a browser, and. Two or more WWW server cooperation system managing earned-hours information and allowing attestation at the time of within the limits of earned-hours information.

[Claim 2] The two or more WWW server cooperation system according to claim 1 having embedded session ID at HTML document Kami so that it might not display on URL, and making session ID into invisibility when embedding above-mentioned session ID at an HTML document.

[Claim 3] Claim 1 or the two or more WWW server cooperation system according to claim 2 characterized by comprising the following.

A call function which calls a cooperation demon into a demon who transmits and receives an HTML document by Hazama with a browser to the above-mentioned WWW server.

A host is notified of an HTML document received from a browser when called from this call function, And a cooperation demon who transmits to a browser an HTML document which embedded session ID which embedded session ID which received a notice from a host at an HTML document, and received a notice in a browser from transmission or a host.

[Claim 4] The two or more WWW server cooperation system according to claim 3 equipping the above-mentioned WWW server with a ***** library which performs processing which received a request from the above-mentioned cooperation demon.

[Claim 5] Claim 1 having matched with above-mentioned User Information and setting up attestation earned hours as the above-mentioned earned-hours information thru/or one of the two or more WWW server cooperation systems according to claim 4.

[Claim 6] Existence of attestation is set up for every directory which compiled every HTML document or two or more HTML documents on the above-mentioned WWW server, Claim 3, wherein the above-mentioned call function calls the above-mentioned cooperation demon only at the time of ***** thru/or one of the two or more WWW server cooperation systems according to claim 5.

[Claim 7] A host is notified of an HTML document received from a browser, And a recording medium which stored a program which operates on a WWW server which transmits to a browser an HTML document which embedded session ID which embedded session ID which received a notice from a host at an HTML document, and received a notice in a browser from transmission or a host.

[Claim 8] An HTML document from a browser notified from one of two or more WWW servers is analyzed, When session ID is not added, an input request of User Information is transmitted to a browser via a WWW server, Transmit an HTML document which generated session ID of a meaning to a demand to which analyzed transmitted User Information and registration was permitted, and session ID embedded via a WWW server again to a browser, and. A recording medium which stored a program which operates on a host who manages earned-hours information and allows attestation at the time of within the limits of earned-hours information.

[Translation done.]

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to two or more WWW server cooperation system with which two or more WWW servers cooperate.

[0002]

[Description of the Prior Art]Conventionally, the session of HTTP (Hyper Text Transfer Protocol) which is a communications protocol of a WWW server is set up when a browser requires a page, and if a server transmits the page, it will be cut. Thus, a session completely turns into another session, when it goes out for every page and the next page (screen) is accessed.

[0003]Therefore, to a page to be attested [of a user], it is made to attest a user per page.

[0004]

[Problem to be solved by the invention]User authentication is required whenever the conventional attestation accesses the page of a WWW server from a browser, as mentioned above. The browser inputted information (information on user ID, a password, etc.) required for the attestation, and transmitted, and there was a problem of generating for every required page [**** / troublesome operation in which a server attests].

[0005]When other WWW servers of the same function were accessed from a browser, for every Paige naturally to be attested, information required for the attestation was inputted, it transmitted, and there was also a problem that a server had to attest.

[0006]In order that this invention may solve these problems, once a user attests, it aims at realizing the system which accesses possible over two or more pages or several different WWW servers based on invisible session ID of the given meaning within attestation earned hours.

[0007]

[Means for solving problem]With reference to drawing 1, The means for solving a technical problem is explained. In drawing 1, WWW server 11 notifies the host 31 of the HTML document received from the browser 22, or transmitting the HTML document which embedded session ID which embedded session ID which received the notice from the host 31 at the HTML document, and received the notice in the browser 22 from transmission or the host 31 to the browser 22 **** — etc. — it carrying out and, It comprises the demon 12, the cooperation demon 14, the part library 15, etc.

[0008]The demon 12 transmits and receives data via a network by Hazama with the browser 22, and has the call function 13 etc. here. The call function 13 calls the cooperation demon 14, when an HTML document is received from the browser 22.

[0009]the cooperation demon 14 being called from the call function 13, and notifying the host 21 of the HTML document which the demon 12 received, notifying the demon 12 of the HTML document notified by the host 31, or calling the part live rye 14, and requesting prescribed processing **** — etc. — it carries out.

[0010]The part libraries 15 are parts (program) which perform various processing which received the request from the cooperation demon 14. transmitting an HTML document applicable when the browser 22 displays on a screen the HTML document which was connected with WWW server 11 via

the network, and was received from WWW server 11 concerned or a document/image is chosen on a screen etc. to the WW server 11 **** — etc. — it carries out.

[0011]the host 31 performing various processing based on the HTML document notified by the cooperation demon 14 who constitutes WWW server 11, or transmitting data to the browser 22 by cooperation demon 14 course **** — etc. — it carries out.

[0012]Next, operation is explained. WWW server 11 notifies the host 31 of the HTML document received from the browser 22, The HTML document from the browser 22 to which the host 31 was notified is analyzed, When session ID is not added, the input request of User Information is transmitted to the browser 22 via WWW server 11, Transmit the HTML document which generated session ID of a meaning to the demand to which analyzed transmitted User Information and registration was permitted, and session ID embedded via WWW server 11 again to the browser 22, and. He manages earned-hours information and is trying to allow attestation at the time of within the limits of earned-hours information.

[0013]Under the present circumstances, when embedding session ID at an HTML document, session ID is embedded at an HTML document so that it may not display on URL, and it is made to make session ID into invisibility.

[0014]The call function 13 which calls the cooperation demon 14 is established into the demon 12 who transmits and receives an HTML document etc. by Hazama with the browser 22 to WWW server 11, The host 31 is notified of the HTML document which the cooperation demon 14 called from the call function 13 received from the browser 22, He is trying to transmit the HTML document which embedded session ID which received the notice from the host 31 at the HTML document, and embedded session ID which received the notice from transmission or the host 31 via the demon 12 at MOBURAUA 22 to the browser 22 via the demon 12.

[0015]He establishes the ***** library 15 which performs processing which received the request from the cooperation demon 14 in WWW server 11, and is trying to request various processing from it to the part library 15 concerned.

[0016]As earned-hours information, the host 31 matches with User Information, sets up attestation earned hours, and is made to judge the validity of session ID. The existence of attestation is set up for every HTML document on WWW server 11, and he calls only at the time of ***** , and is trying for the function 13 to call the cooperation demon 14.

[0017]Therefore, once a user attests, it will become possible within attestation earned hours to access over two or more pages or several different WWW servers 11 based on invisible session ID of the given meaning.

[0018]

[Mode for carrying out the invention]Next, an embodiment of the invention and operation are explained to details one by one using [drawing 8](#) from [drawing 1](#).

[0019][Drawing 1](#) shows the system configuration figure of this invention. In [drawing 1](#), WWW server 11 notifies the host 31 of the HTML document received via the network from the browser 22, or, transmitting the HTML document which embedded session ID which embedded session ID which received the notice from the host 31 at the HTML document, and received the notice in the browser 22 from transmission or the host 31 via the network to the browser 22 via a network **** — etc. — it carrying out and, It comprises the demon 12, the cooperation demon 14, the part library 15, etc. This WWW server 11 performs processing indicated to be a WWW server in [drawing 2](#), mentioned later, for example. Here, an HTML document is a document it was described with HTML language that displayed a document and an image, and there are URL (address) and header information (information used with an HTTP protocol) on the screen of a browser elsewhere.

[0020]Delivering [the demon (http 12) and receiving data (URL, a htmlL document, etc.) by Hazama with the browser 22 via a network using an HTTP protocol, he has the call function 13 etc. here.

[0021]The call function 13 calls the cooperation demon 14, when an HTML document is received

from the browser 22. Notify the host 21 of the HTML document which the cooperation demon 14 was called from the call function 13, and the demon 12 received, or, notifying the demon 12 of the HTML document notified by the host 31, or calling the part live rye 14, and requesting prescribed processing **** — etc. — it carries out and processing indicated to be a cooperation demon in drawing 2 mentioned later is performed.

[0022]The part library 15 performs processing indicated to be parts in drawing 2 which is the parts which perform various processing which received the request from the cooperation demon 14, for example, is mentioned later. It connects with WWW server 11 via a network, and the terminal 21 delivers and receives data using an HTTP protocol, and comprises the browser 22 etc. here.

[0023]The browser 22 displays on a screen the HTML document which was connected with WWW server 11 via the network, and was received from WWW server 11 concerned, or, transmitting an HTML document applicable when a document/image is chosen on a screen etc. to WWW server 11 **** — etc. — it carries out and they are general-purpose browsers (program which displays an HTML document), such as a net escape (product name).

[0024]The host 31 performs various processing based on the HTML document notified by the cooperation demon 14 who constitutes WWW server 11, or, transmitting data to the browser 22 by cooperation demon 14 course **** — etc. — it carries out, and it comprises the management tool 32, the management table 33, etc., and various processing indicated to be a host of drawing 2 mentioned later is performed here.

[0025]turning data to the browser 22 at the time of the attestation [**** / that the management tool 31 attests with reference to the management table 32] O.K., and transmitting **** — etc. — it carries out. The management table 32 is a table which registers and manages various management information, and comprises the security table 34, the session table 35, etc. here.

[0026]The security table 34 manages the security information of an HTML document, and manages information as shown in drawing 3 mentioned later. The session table 35 manages the attestation earned hours of session ID, and manages here information as shown in drawing 4 mentioned later, for example.

[0027]Next, according to the turn shown in drawing 2, operation of the composition of drawing 1 is explained in detail. Drawing 2 shows the explanatory view of this invention of operation. Here, a browser, a WWW server, and a host are equivalent to the browser 22 of drawing 1, WWW server 11, and the host 31, respectively.

[0028]In drawing 2, S1 specifies URL to refer to. This transmits the URL concerned to WWW server 11 corresponding to specification of URL (address) which the browser 22 refers to.

[0029]S2, WWW server 11 receives URL (it receives). S3 analyzes URL. S4 is distinguished in a plug-in function designator as a result of the analysis of URL of S3. In YES, processing of the following concerning this invention is performed, and it calls to it by S7, and the function 13 calls the cooperation demon 14, performs delivery to a permanent residence demon (cooperation demon) by S8, notifies the host 31 of an authentication demand by S9, and progresses to S10. On the other hand, since it became clear that there is no call of a plug-in function in NO of S4, a html document is sent out by S5 and the browser 22 displays a html document on a screen by S8.

[0030]By the above S1 thru/or S9, URL which the browser 22 refers to is transmitted to WWW server 11, The demon (http) 12 of WWW server 11 receives URL, and it is distinguished whether a plug-in function call is required, In YES, the cooperation demon 14 is called (when required), and it becomes possible to notify the host 31 of an authentication demand, On the other hand, it enables the browser 22 to transmit the html document corresponding to URL as usual at the browser 22 in NO (when not required), and to display a html document on a screen.

[0031]S10, the host 31 receives the authentication demand from the cooperation demon 14. S11 analyzes URL. S12 judges that it is URL to be attested. This is judged with reference to the security table 34 of drawing 2 for which it is mentioned later whether the html document specified by URL is what needs attestation. When attestation is required, it progresses to S15. On the other hand, when

attestation is unnecessary, the html document which transmitted the html document to the browser 22 via WWW server 11 by S13, and the browser 22 received by S14 is displayed on a screen.

[0032] Since S15 turned out for attestation to be required by S12, it takes out the attestation range of specified URL. S16 distinguishes whether session ID is added. This distinguishes whether session ID is added to the attestation range of URL received from the browser 22 by S15 (it is distinguished whether session ID is already added before). Since it became clear that session ID was already set by S17 thru/or 37 before in YES, it progresses to S41. On the other hand, in NO, since it became clear that session ID is not set (addition), session ID is added by S17 thru/or S32.

[0033] Since S17 turned out not to add session ID by S16, it notifies the transmission request of ID and a password screen (java) to WWW server 11. The cooperation demon 14 of WWW server 11 receives S18.

[0034] The parts in the part library 15 send out ID and html for password input (java, html) from the cooperation demon 14 who received S19 by S18. S20 displays html (java) for password input sent out by S19 on the browser 22.

[0035] The screen top for password input where S21 was displayed by S20 — ID — password input is carried out. For example, a user enters user ID and a password by the password / ID input screen Kami of [drawing 5](#) mentioned later, and the depression of the START button is carried out.

[0036] S22 enciphers ID and a password (java) and transmits to WWW server 11. S23 sends out receiving information (re-encryption). This receives ID to which 11 was transmitted with WWW server S22, and the information which the password enciphered, re-enciphers this information, and transmits to the host 11.

[0037] By the host S23, S24 receives the information to which 31 was transmitted, and ** and decrypts it. S25 takes out ID and the password which were decrypted by S24. S26 performs search of ID and a password. This searches ID (user ID, password) in the session table 35 of [drawing 4](#) mentioned later, for example, and distinguishes whether there is any match. In O.K., it progresses S29. Since it was proved that they are ID in agreement and the ** error into which the password is not registered in the case of NG, error display html which pointed to WWW server 11, and transmitted html for error displays by S27, and the browser 22 received by S28 performs an error display on a screen.

[0038] Since it became clear that S29 searches ID and a password with S26, and has a match, the attestation range is judged. This judges the attestation range for every user ID besides a graphic display, and distinguishes whether attestation authority is given by the user ID concerned. In O.K., it progresses S30. Since it became clear that attestation authority is not given to user ID in the case of NG, html for error displays is sent out by S27, and the browser 22 displays error display html on a screen by S28.

[0039] Since attestation authority was proved by O.K. of S29 that it is ****, S30 sets session ID. Session ID of a meaning which consists of a date time second ms of current time is set to the column to which session ID in the session table 35 of [drawing 4](#) corresponds, and session ID memorizes it, as it is ID of a meaning, for example, is shown in [drawing 4](#) mentioned later.

[0040] S31 sets attestation guarantee time. This takes out the attestation earned hours of the session table 35 of [drawing 4](#) mentioned later, adds them to current time, and is set to the column of the attestation expiration time of [drawing 4](#) concerned in quest of attestation expiration time.

[0041] S32 sends out session ID. S33 receives session ID to which 14 was sent out by the cooperation demon S32 of WWW server 11.

[0042] S34 adds session ID to URL as which parts were specified. This adds session ID to URL as which (a) of [drawing 8](#) mentioned later, for example was specified, and generates URL of (b) of [drawing 8](#) (session ID addition).

[0043] S35 carries out the reorganization collection of the addition URL to fixed URL. This as fixed URL about URL of (b) of [drawing 8](#) which added session ID by S34 (session ID addition), it adds like a graphic display of data, generation, i.e., immobilization by a system, of URL of (c) of [drawing 8](#) (cgi

addition), Even if original right session ID is embedded into a html document and URL (cgi addition) is displayed explicitly, as SENSHON ID is not displayed, it is made not visible to others (invisibility is used).

[0044]S36 sends out a html document. The browser 22 displays on a screen the html document in which S37 was sent out by S36. Under the present circumstances, although URL (cgi) is displayed, right session ID considers [that fixed cgi (for example, xxxx.cgi) is only displayed on the URL concerned by a system, and] it as invisibility, and he is trying to embed into a html document. And it returns and repeats to S1.

[0045]Since S41 turned out to add session ID by S16, it searches session ID. This distinguishes whether it registers with the session table 35 of drawing 4 about session ID. In O.K., it progresses S42. Since it became clear that session ID is not registered into the session table 35 in the case of NG, processing after S17 mentioned already is performed, and re-registration of session ID is performed.

[0046]S42 is distinguished in the inside of the useful range of session ID. This has current time within the attestation expiration time in the entry of session ID applicable with reference to the session table 35 of drawing 4, mentioned later, and distinguishes whether the session ID concerned is effective. In O.K., processing after S33 mentioned already is performed. Although session ID was registered into the session table 35 in the case of NG, since it became clear that it is not earned-hours within the limits, processing after S17 mentioned already is performed, and re-registration of session ID is performed.

[0047]By the above, conduct URL analysis, and in being URL to be attested, When session ID is not added, transmit to the browser 22 and ID and a password input screen are displayed, ID and the password which were entered add session ID of a meaning at the time of the right, On the other hand, when session ID is added and the session ID concerned is earned-hours within the limits, add session ID into a html document at invisibility, and it transmits to the browser 22. When it transmits to the browser 22 and ID and a password input screen are displayed, when it is not earned-hours within the limits, even if session ID is added, and ID and the password which were entered re-add session ID of a meaning at the time of the right, It enables the browser 22 and the host 31 to transmit and receive via arbitrary WWW servers 11 about earned-hours within the limits based on session ID embedded into the html document at invisibility. It explains to details one by one below.

[0048]Drawing 3 shows the example of a security table of this invention. This matches and registers SOP, TYPE, and URL. Here, SOP expresses -001:SABIBISU classification like a graphic display, expresses `PUB:public presentation, and expresses -BAS:foundations.

[0049]TYPE expresses -00:attestation (charge) like a graphic display.

**01: Express attestation (no charge).

[0050]

- BS : express foundations.

- PUB : express public presentation.

URL connects a directory and a html document like a graphic display.

[0051]As mentioned above, the security decided by SOP and TYPE for every html document is registered, and it is made to manage with the security table 34. Drawing 4 shows the example of a session table of this invention. Like a graphic display, match this session table 35 with user ID and a password, and Attestation earned hours, Patrol time and timer-supervision time are registered beforehand, When the host 31 actually receives URL to be attested first from the browser 22. It is alike and session ID (session ID of a meaning decided by the date time second ms of current time like a graphic display) of a meaning is added. It sets to the column of session ID of the session table 35 concerned, and the attestation expiration time which added and found attestation earned hours at registration and current time is set to the column of the attestation expiration time of the session table 35 concerned. And embed session ID in a html document at invisibility, and deliver and receive via arbitrary WWW servers 11 by Hazama of the host 31 and the browser 22, that treat

session ID as an effective thing until attestation expiration time passes, and the host 31 transmits data to the browser 22 **** — etc. — it is made to carry out.

[0052]It is a time interval which patrols whether the patrol time in the session table 35 passes the attestation expiration time in the entry in the session table 35 concerned, and has an unnecessary thing, and is for an invalid thing's deleting and reducing memory space. Timer-supervision time sets up time to supervise various timers.

[0053]ID in the session table 35 and a password are the copies of user ID and a password registered into the master DB which registered user ID and a password off-line besides a graphic display.

[0054]Drawing 5 shows ID / example of a password input screen of this invention. This is an example of an input screen of ID/password displayed on the screen of the browser 22 by S20 of drawing 2 mentioned already, and displays the field which enters user ID and a password like a graphic display. If it inputs into the input area of these user ID and a password and the depression of the START button is carried out, it enciphers by S22 of drawing 2 mentioned already, and sends out to WWW server 11.

[0055]Drawing 6 shows ID / pass-word-authentication flow chart of this invention. In drawing 6, S51 distinguishes whether ID/password is registered to the master DB. In YES, it distinguishes from the attestation O.K. by S52. Since it became clear that it is not that ID and the password of which the host 31 was notified via WWW server 11 inputted by ID / password input screen Kami of drawing 5 are registered into the master DB in NO, it is decided by S53 that it will be attestation NG.

[0056]Drawing 7 shows the judgment flow chart of the attestation range of this invention. This is a flow chart which judges the attestation range based on TYPE registered into the security table 34 of drawing 3 mentioned already.

[0057]In drawing 7, S61 distinguishes either of the values (00, 01, BS, PUB) of the column of TYPE of the security table 34 of drawing 3 specified by URL. S62 judges attestation O.K. / attestation NG with the value (00, 01, BS, PUB) of the column of TYPE, respectively.

[0058]— In the case of TYPE=00, it distinguishes in pay service ***** by S63, is judged with the attestation O.K. by S64 at the time of YES, and is judged with attestation NG by S65 at the time of NO.

[0059]— In the case of TYPE=01, it distinguishes in free service ***** by S66, is judged with the attestation O.K. by S67 at the time of YES, and is judged with attestation NG by S68 at the time of NO.

[0060]— In TYPE=BS, it is judged with the attestation O.K. by S69.

— In TYPE=PUB, it is judged with the attestation O.K. by S70.

Drawing 8 shows the URL/html document examples of this invention.

[0061](a) of drawing 8 shows the example of URL. Here, as for URL, a <http://www.fujitsu.co.jphtml> document embeds -HREF:URL data of a graphic display into the html document concerned.

[0062](b) of drawing 8 shows the example of URL (session ID addition). Here, URL (session ID addition) a <http://www.fujitsu.co.jp?END=yymddhhmssxxxhtml> document, It is what (what was embedded at invisibility) embedded -HREF:URL (session ID) data of the graphic display into the html document concerned. Since it will be displayed explicitly that this URL (session ID addition) is sent out to the browser 22 as it is and session ID can be seen, the way things stand, it does not send out to the browser 22.

[0063](c) of drawing 8 shows the example of URL (cgi addition). Here, URL (cgi addition) is that (what was embedded at invisibility) to which the <http://www.fujitsu.co.jp/xxx.cgihtml> document embedded -HREF:URL (session ID) data of the graphic display into the html document concerned. Even if it sends out this URL (cgi addition) to the browser 22, session ID "yymddhhmssxxx" is not displayed [that "... xxx.cgi" is only displayed explicitly and] explicitly, and it becomes possible to hold secretly.

[0064]

[Effect of the Invention]As explained above, according to this invention, the HTML document from

the browser notified from one of two or more WWW servers is analyzed, When session ID is not added, the input request of User Information is transmitted to a browser via a WWW server, Transmit the HTML document which generated session ID of a meaning to the demand to which analyzed transmitted User Information and registration was permitted, and session ID embedded via the WWW server again to a browser, and. Earned-hours information is managed, and since the composition which allows attestation at the time of within the limits of earned-hours information is adopted, once a user attests, it can access over two or more pages or several different WWW servers based on invisible session ID of the given meaning within attestation earned hours. Thus, it became possible to realize session management over two or more WWW servers by invisible session ID.

[Translation done.]

*** NOTICES ***

JPO and INPIT are not responsible for any
damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

- [Drawing 1] It is a system configuration figure of this invention.
- [Drawing 2] It is an explanatory view of this invention of operation.
- [Drawing 3] It is an example of a security table of this invention.
- [Drawing 4] It is an example of a session table of this invention.
- [Drawing 5] They are ID / example of a password input screen of this invention.
- [Drawing 6] They are ID / pass-word-authentication flow chart of this invention.
- [Drawing 7] It is a judgment flow chart of the attestation range of this invention.
- [Drawing 8] They are URL/html document examples of this invention.

[Explanations of letters or numerals]

- 11: WWW server
- 12: Demon (http)
- 13: Calling function
- 14: Cooperation demon
- 15: Part library
- 21: Terminal
- 22: Browser
- 31: Host
- 32: Management tool
- 33: Management table
- 34: Security table
- 35: Session table

[Translation done.]

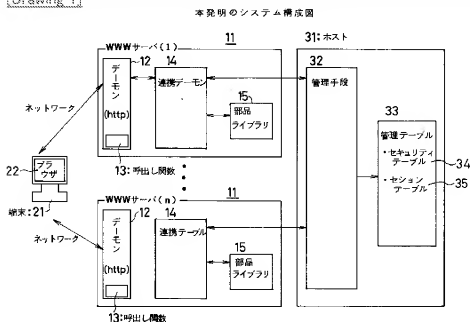
* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DRAWINGS

[Drawing 1]



[Drawing 2]

[illegible]

[Drawing 3]

本発明のセキュリティテーブル例

34

SOPT	TYPE	URL
001	00	/AAA/A.htr!

/AAA/A.htr!
ディレクトリ htr!文書

001: サービス種別

PUB: 公開

BAS: 基本

00: 認証(無料)

01: 認証(有料)

BS: 基本

PUB: 公開

[Drawing 4]

本発明のセッションテーブル例

35

セッションID	ID	パスワード	認証有効時間 A+r	パトロール 時間 P+r	タイム監視 間隔 Tsup	認証完了 時間 Tau+h
yyymmddhhmmssxxx	A	XXX	003000	001000	001000	013000

マスターDBのコピー

セッションID yy mm dd hh mm ss xxx
年 月 日 時 分 秒 ミリ秒

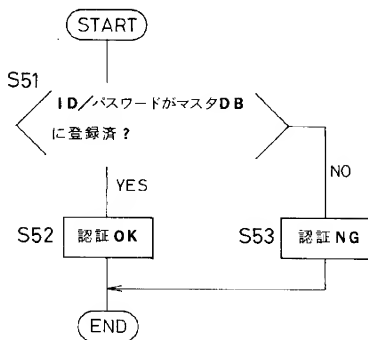
[Drawing 5]

本発明のID/パスワード入力画面例

<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> ホームページ	
ユーザ ID	<input type="text"/>
パスワード	<input type="text"/>
<input type="button" value="START"/>	

[Drawing 6]

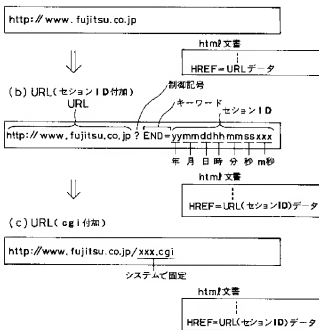
本発明のID/パスワード認証フローチャート



[Drawing 8]

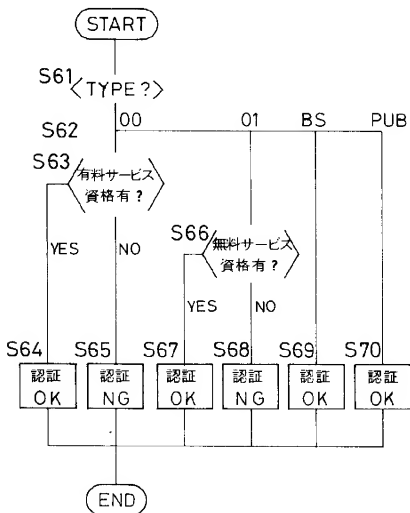
本発明のURL/html文書例

(a) URL



[Drawing 7]

本発明の認証範囲の判定フローチャート



[Translation done.]